



Figure 1

>seq1 [SEQ ID NO: 1]
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GGAACCTTAATGTGA
>seq2 [SEQ ID NO: 2]
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TTCCGCTCATTTGTGTATGTCGATGCCAACCGGGCGCATGCAGCTGATTGAACCGGTGCAAATGAAAGGGCA
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>seq3 [SEQ ID NO: 3]
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>seq4 [SEQ ID NO: 4]
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>seq5 [SEQ ID NO: 5]
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>seq6 [SEQ ID NO: 6]
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>seq7 [SEQ ID NO: 7]
ATGATGCAAGCCTGCTCAAACAAGAAAGATATGCGGACCTCTGACTCCAGCATCGAGTCCGCTACCGCTCAGCCT
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>seq8 [SEQ ID NO: 8]
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>seq10 [SEQ ID NO: 10]
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CACTCGTGGCTTACATGAGCTTCTGCTCCCTCCGTGCGGGGACCGGGGTTGATCCATAATCTCCTCAGG
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CTCTGA
>seq12 [SEQ ID NO: 12]

Replacement Drawing Sheet 2 of 19

US Application No. 10/763,039 entitled "Alien Sequences" by Smith et al.

Attorney Docket No. 2003320-0036

ATGCGGGAAAGAGTCCAAGACTATCTCGATCAATGGTGTGAAATGGCTCATTGATTGCCAGCTGAAAAAACTTCACAGA
GGAACATATGGTGTGCGACTGCAGGAGAAGCTCTACATCCTGGGCTGTTGGTGCACCTGGTGACTGGAGGGT
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>seq13 [SEQ ID NO: 13]

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CACAGGTGAAAGATTCTGGGACTCCACCCAGCAGGTTTAAGCAGCTGGGCAATCTGAGGCCCTCAGCAGATTGCA
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GGATTCTCTTGTGCCATCTCAAGTGA

>seq14 [SEQ_ID_NO: 14]

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>seg15 [SEQ ID NO: 15]

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>seq16 [SEQ ID NO: 16]

>seq16 [SEQ ID NO: 16]
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>seq17 [SEQ ID NO: 17]

>seq1 [SEQ ID NO: 1]

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CAAGAAACTGACGAGCCGCTTCTATCTGAAACCTAACATGTCCTCCGGTCTATCCGCTACGGAGAGCCGCAACCACTC
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>seq18 [SEQ ID NO: 18]

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TTACAGTGTGGCCGACAGAGTAGCCTCGATGCCAAATGCCATGTGACCAGCACTATAGAAAGGTGCACTGCTGCCCTA
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>seq19 [SEQ ID NO: 19]

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>seq20 [SEO ID NO: 20]

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GTTTTACTCCCAGACCATCTTGCCTGGCGGCCCAAGGATGCCGAAACAGAGAGACAGAGGAGAACGCCCTCAAGCTG
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>seq21 [SEQ ID NO: 21]

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>seq22 [SEQ ID NO: 22]

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Replacement Drawing Sheet 3 of 19
US Application No. 10/763,039 entitled "Alien Sequences" by Smith et al.
Attorney Docket No. 2003320-0036

GAACCTATTGCCCTGCTTATTGTGGAAGTGTGAGAACATATTTGTGGCAGGGGATCAATCTAACGATGCGACAGGT
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>seq23 [SEQ ID NO: 23]

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>seq24 [SEQ ID NO: 24]

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TAA

>seq25 [SEQ ID NO: 25]

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>seq26 [SEQ ID NO: 26]

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>seq27 [SEQ ID NO: 27]

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>seq28 [SEQ ID NO: 28]

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TCCGGGCCCTGCGTGAATGGAGCTGGGATCCAGGTACCATACGATTCTGGCTACCTACTGCCGCTCGGGAGTT
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>seq29 [SEQ ID NO: 29]

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Replacement Drawing Sheet 4 of 19
US Application No. 10/763,039 entitled "Alien Sequences" by Smith et al.
Attorney Docket No. 2003320-0036

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Replacement Drawing Sheet 5 of 19

US Application No. 10/763,039 entitled "Alien Sequences" by Smith et al.

Attorney Docket No. 2003320-0036

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>seq42 [SEQ ID NO: 42]

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>seq43 [SEQ ID NO: 43]

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>seq44 [SEQ ID NO: 44]

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GCCGACCATGGTGCACCGAACCCAGGGTGTGACACTGGTTGCGCTGGTGCAGGCCATGGCGGTGAC
ATAGTCACCTCTGACCCCCGATCCCCCAGGGTGAAGAGGCCAGGATCGCTACAACCTCATTGGGTGCCCTGTAC
CGGCTGCCTACATCCCTGTTACTACATGAATGTGCTATCCATCTCAAGGAACTTGAGCTGCTATTGAGCTCAATCCA
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>seq45 [SEQ ID NO: 45]

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>seq46 [SEQ ID NO: 46]

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>seq47 [SEQ ID NO: 47]

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>seq48 [SEQ ID NO: 48]

ATGTTGCCCTCTTAGATCTGACTAGTTCTGACCTCTCGCGGGCGGGCTTGGTACACTACCTCACCCCTCCTGACACCG
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TGAGTACACACTATTCCCGGAAGTACTTAATTGACCCCATCTCACAGCTTCTGCTGTTACCTTAATGCACCTGCTC
TGA

>seq49 [SEQ ID NO: 49]

ATGATGAGCAAGCATCACACCCCAACACCGTACTCTGCTGCCAAATGAAGACCTGCAGGGAACCCGAGGCTGCGAG
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>seq50 [SEQ ID NO: 50]

ATGAACGACATGCACTGCCCTTGGCACAAAACACGTATCACCGAGAGGGAAATAAGTTCTCTCCAGCCCTCGA
CCAATGGAACACGTTCCAGGCGAGAGGAGCACTGTCAGTCCCTCAGAGGCCACTCCGTACCGCGGTATGTATGGCCC
CTCATGCTCAGCGTACCTCTTGTATACTTCTGATCTG

>seq51 [SEQ ID NO: 51]

ATGATGACGCTGGTTTGTGGAGGGCCAAATCCACTCTTACCTCTGACTCTGAGCGTCTCTGCTGTTGAAAATGG
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TCAGCCAAAGTCCCTGCCAGCGCGGATCTCTCCAGGGTGCTCAGACGTCTACCCCTCTGGTCAAGGCGAGT
TGA

>seq52 [SEQ ID NO: 52]

ATGGAAGAGAACGGCTGGCACATTCTACACTGGGTGAAGTTACGGGCAATGACACTGGCTCCCTGGCGCTGCGTA
AGCAGTCAGATGCTGTGAGTCCCAGACAGCAAGTGCCTG

>seq53 [SEQ ID NO: 53]

ATGACCTTGTCTTCCGGCCTGTACCCCAAGTGGCGGTGAGCCAGAGCCACTATCAATCTGGAGGGACCCGACA

Replacement Drawing Sheet 6 of 19
US Application No. 10/763,039 entitled "Alien Sequences" by Smith et al.
Attorney Docket No. 2003320-0036

TCGCTGAAGGGACCATCGAGGATCACCTGGAGCGCCTCAAACCGGTATGAGAGCCTGATTAATGGTGGGACGTAA
>seq54 [SEQ ID NO: 54]
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CCCTGTTAGCTCGCACCATCAAGTTCAAGACAATGTCTATGCTGAAAGTGGACACCCCTGA
>seq55 [SEQ ID NO: 55]
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CACAGGTAGCAGACTGACAGTGGTCTACACCCAGGCATGCGTAGCCCTGACATGGCTAAGGTCAGCAATGG
GTTGTCGGGGCAATGGGAGTCCGGGGCATGAGCCGAACCTCATGCTCATACTTATGCTCCAGAGGAATATACTCA
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CAGGCCAAATCTGATTGCGCAGGCAGGGCTGACTGTCGTTCTAGGTCCACTCCTGGAGATGTCGATTTCTCGCT
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>seq57 [SEQ ID NO: 57]
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GGCCGAGGAGCATCCTAGACGCTCCCTGGCAAACGAAATGGCTGGGCGAGCACTGGGGACTTAATATTGGGAT
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>seq58 [SEQ ID NO: 58]
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GCCAGATTCAATGCGTTGAAATCTATTGACATCTTGTCAAACTAACAGACCTCTGTCAGCTGA
>seq59 [SEQ ID NO: 59]
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>seq60 [SEQ ID NO: 60]
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GCTTATGCAAGGATGGAGGGCCAGAGCAGAGAAATATGAGGCCCCGTGAACCAGCCCACCGCTCACTAAGGCGATGTAT
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>seq61 [SEQ ID NO: 61]
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>seq62 [SEQ ID NO: 62]
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Replacement Drawing Sheet 7 of 19
US Application No. 10/763,039 entitled "Alien Sequences" by Smith et al.
Attorney Docket No. 2003320-0036

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>seq66 [SEQ ID NO: 66]
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>seq69 [SEQ ID NO: 69]
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AGTGGGAGATTGGGGCCAGGCCACCAAGAACATACGACCCAGGCCATCGAGCTGGCTCAGAG

Replacement Drawing Sheet 8 of 19
US Application No. 10/763,039 entitled "Alien Sequences" by Smith et al.
Attorney Docket No. 2003320-0036

GACATCAGCTTAAATTATGTCATGTCCAGCTGGAAAGAATGTGGGAAGGTATGCAGCCCCCTTGTCTAGGTC
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GGGGTGTATCTGAAGTTCACTGGGGAGGGAGGGTTTGTCTCAATCAAGTTGTCTGACTCTTCTCAGTT
GAGATTGAGTTGGCAGAGGTGAGATTCTATCCTACAGAACTCAGGTGCCCCACGCCACCGACTATCTGAGTG
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Replacement Drawing Sheet 9 of 19

US Application No. 10/763,039 entitled "Alien Sequences" by Smith et al.

Attorney Docket No. 2003320-0036

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>seq97 [SEQ ID NO: 97]

Replacement Drawing Sheet 10 of 19
US Application No. 10/763,039 entitled "Alien Sequences" by Smith et al.
Attorney Docket No. 2003320-0036

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TGCCTGGGCCAGCCAGGGTCGACCGGTCCATCTCATTAAGGGCAGGAGAAATCTAGGGAAATTAGATCCGAGC
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AA

>seq98 [SEQ ID NO: 98]

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>seq99 [SEQ ID NO: 99]

ATGGGCACAAAGCCCTTCTCACTCAAGGGAAAGAGCTACAAGCAGCCTAACCTGAAAATGCACCCCTCGTGCCTCCCT
TAAACAGATTCTGTGTCAGGGTCTGCAGTTGCAAGCGGAAATGCGGTAA

>seq100 [SEQ ID NO: 100]

ATGAATGGCTCCTGCACACGACATATAAGGAGAACGTCGTATCCGCGTGAGGTGTTGGCATAGTGCAAGAAATT
CCCGCCTGTGCTCTGCCCTCCAGTTCCATGGCAACCCCGCAAATGACGTGAATATGGTATCCCCCTCAAAGACG
TGCCTGACGAAACACCTATGGGCTGCTTCGATTGTCAGATGACGCCATTACAACCTACCGTCTGCCCTGGTT
TACTCGAGCCAAGAGGCACTCAAGTGTGTTACCTGGCTCCGGCGAGAATTGAAATGCCCTTGTGTTAGTGGTG
CGGCCAACAGATCCTACAACCTTCTGTAAGGAACGCTTGGTCACGCACCTGCCTGATCCGATGGCACAGATATTT
ATGGATGAACTGGACATGAAATGTTGACTGCCCTCGCATCTGA

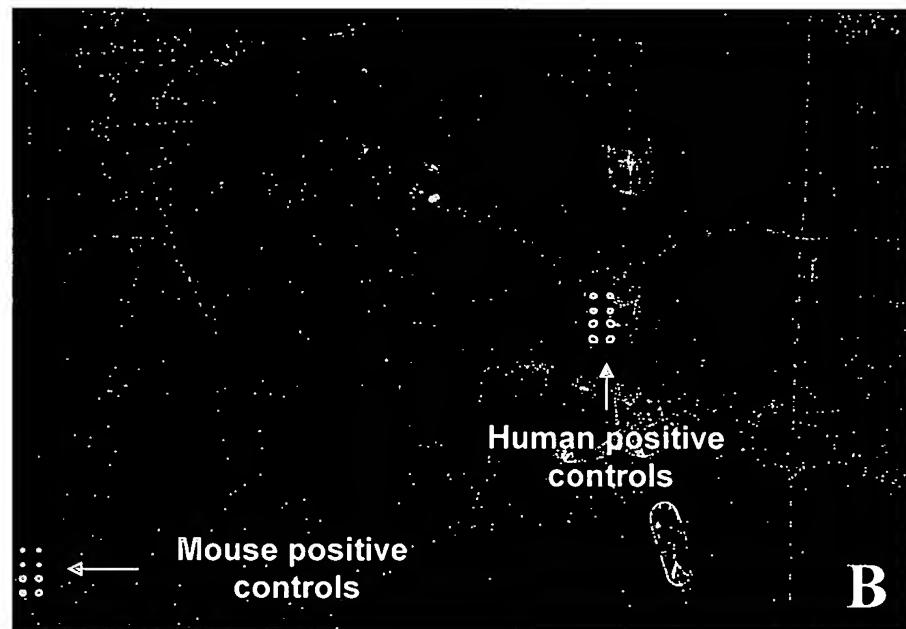
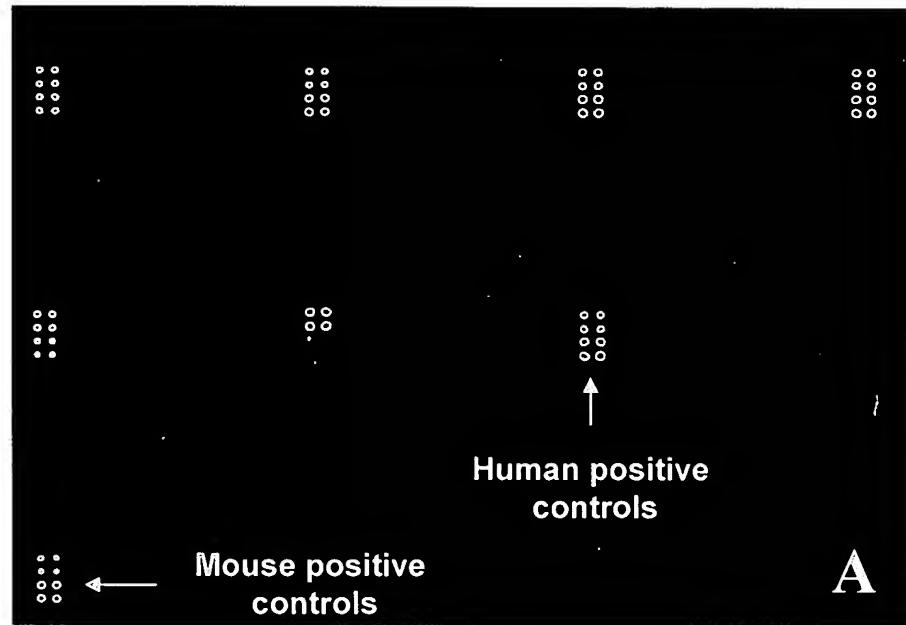
Figure 2

Replacement Drawing Sheet 12 of 19
US Application No. 10/763,039 entitled "Alien Sequences" by Smith et al.
Attorney Docket No. 2003320-0036



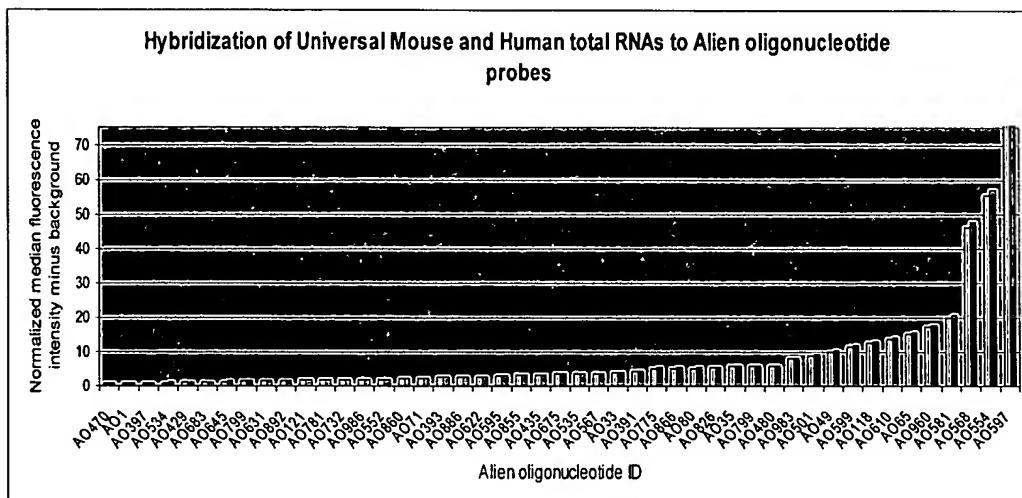
Replacement Drawing Sheet 13 of 19
US Application No. 10/763,039 entitled "Alien Sequences" by Smith et al.
Attorney Docket No. 2003320-0036

Figure 3



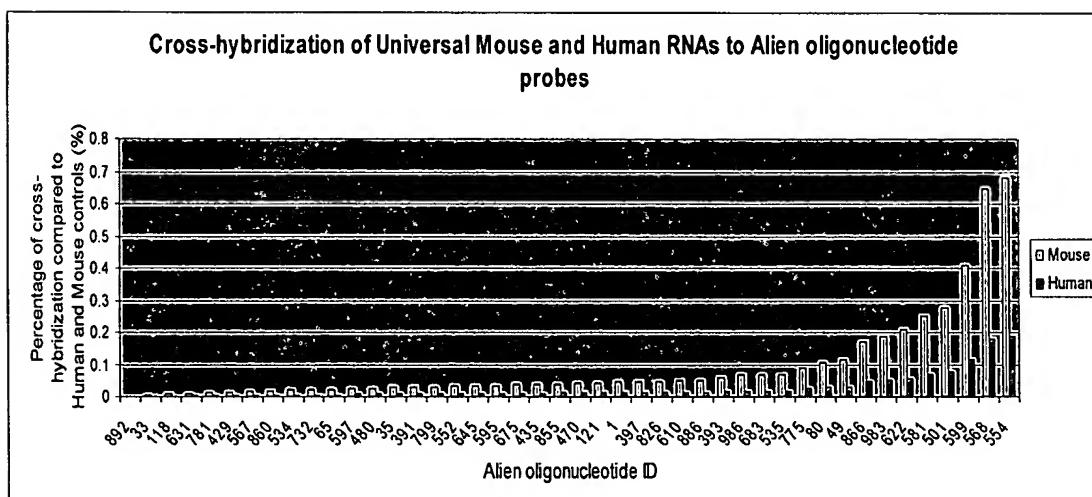
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Figure 4



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Figure 5



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Figure 6

Alien Gene A (321 bp) [SEQ ID NO: 148]

A

T7 promoter AO429
5' TTCTAATACGACTCACTATAGGG | CCATCCGGGCCATACGTTATAGTAGCGATTGTTGCCCTACCAGCGAATCGCGC
AO732
CCAGTTAGTAATC | TAATTTGGGTTGTCGAGGCATAAACTGGTATGCTCGCTCGACGAGCGGTTGCACGCCATCG
AO552
CT | GTGCCACCCCAATTGTCTTGTCCGGCCAAGAGTACGACAACGGGTATTTGGTACTATATCCCAC | GCGGGCTC
AO567
TTGTGCAAACTTATGGGGCTGGTTACTGGGTGAGCACGTTTGCAGACTACGACAGTA | AAAAAAAAAAAAAAAA

Alien Gene B (322 bp) [SEQ ID NO: 149]

B

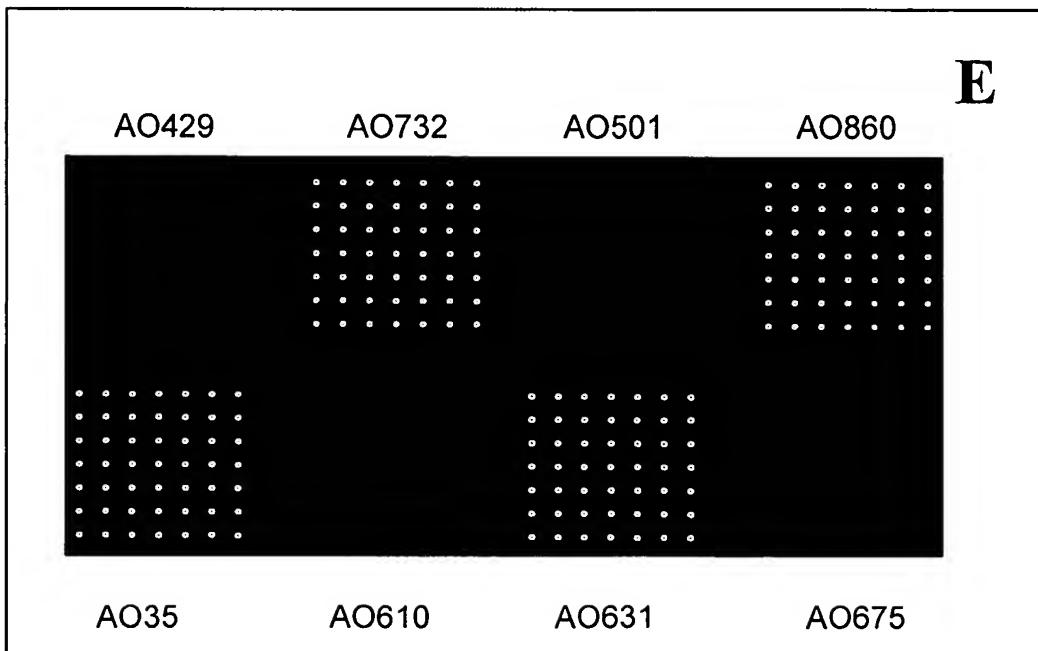
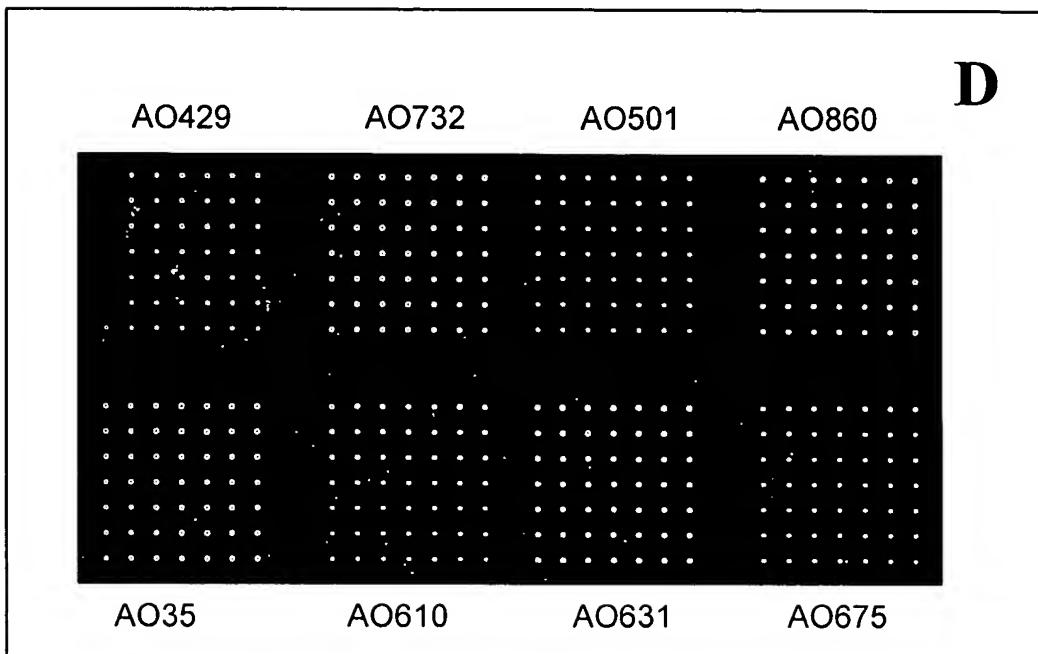
T7 promoter AO35
5' TTCTAATACGACTCACTATAGGG | CATCTATCTATGTCAGTTACCGGCATGGTTATGGATTGTCGACCGCGATGTGAC
AO860
GTTGGGTTTCCAC | TCAGATGTCGTTATTATCGGAAGGTATCCGGTTCACTATCACGGCGATTACTCGCGTTGCGAAAG
AO732
GGC | TAATTTGGGTTGTCGAGGCATAAACTGGTATGCTCGCTCGACGAGCGGTTGCACGCCATCGCT | TCCGCAT
AO631
GCGATCAACGCGTGGTCAATACGTGTTAGAACCGGTCACGCCAGCTGACCTACTGCGTT | AAAAAAAAAAAAAAAA

Alien Gene C (322 bp) [SEQ ID NO: 150]

C

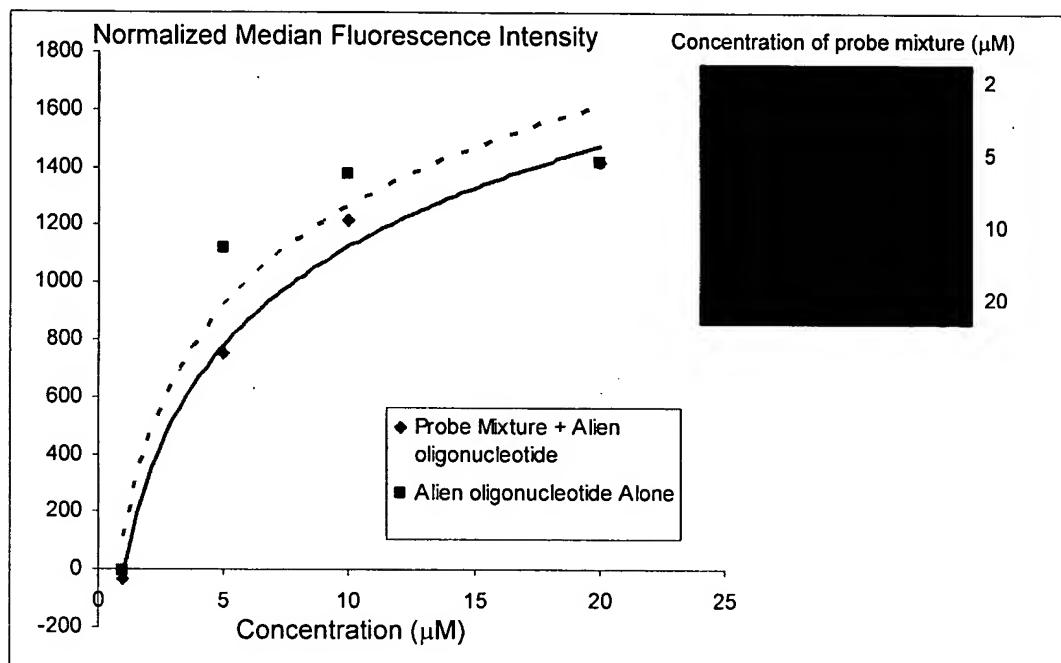
T7 promoter AO781
5' TTCTAATACGACTCACTATAGGG | CCCTCTCGCCCACGTTGCTCGTCTGTTGACACTACTGACGGGTATCCCTCTAA
AO391
ATACTTCTCTTTT | GTTAAGGGTCTCGAAAGATTCTACTCTCGACGTACCGTTGGCAGCGCACTAAGAACGGTAATGTGC
AO534
TG | TATTTTCCGGTACTGAGTGGAACGACATGAAGTTGGCGGTCAAGTCGTTATTCGACGCCACGCACCACT | CGGCCACA
AO33
ACTCTCAGGACGCATATAAGACGCGAAAGGCATACACGTCTACTTAGAGACACCGAGACTT | AAAAAAAAAAAAAAAA

Figure 6



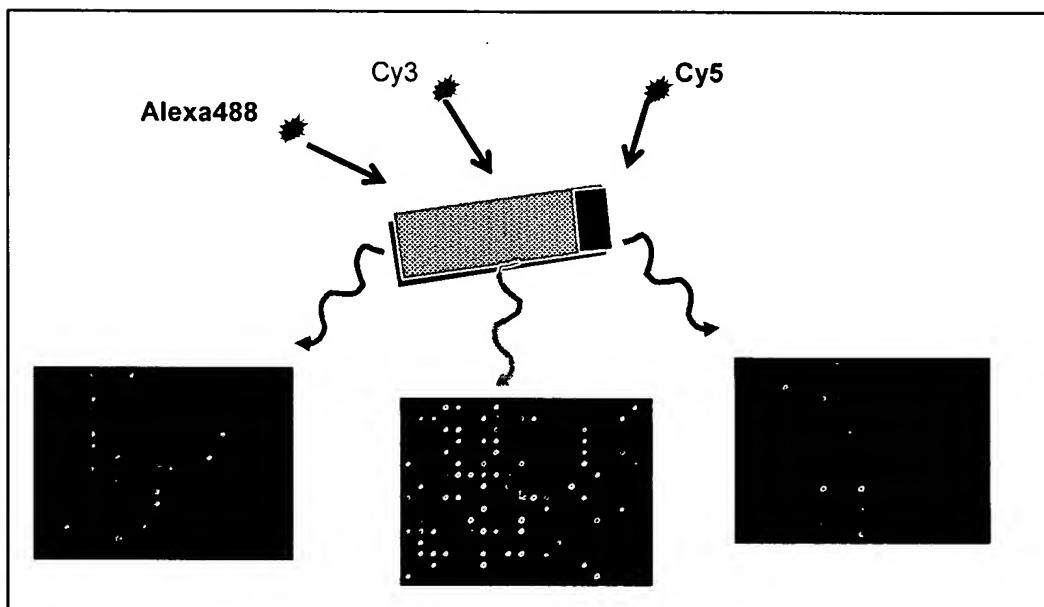
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Figure 7



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Figure 8



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